

Amendment to the Claims

Please cancel claims 22-55 without prejudice to pursuing these claims in a continuation, divisional, continuation-in-part or other application. Following is a complete listing of claims, as amended:

1. (Original) A stepper or scanner machine for processing microfeature workpieces, the machine comprising:
 - a housing;
 - an illuminator disposed within the housing;
 - a lens disposed within the housing;
 - a workpiece support disposed within the housing;
 - a cleaning device disposed within the housing to remove contaminants from the workpiece support; and
 - a stage carrying the workpiece support, at least one of the stage and the cleaning device being movable relative to the other to selectively position the workpiece support at least proximate to the cleaning device.
2. (Original) The machine of claim 1 wherein the cleaning device comprises an end effector configured to engage the workpiece support to remove contaminants.
3. (Original) The machine of claim 1, further comprising a positioning device coupled to the cleaning device to move the cleaning device relative to the housing.
4. (Original) The machine of claim 1 wherein the cleaning device is fixed relative to the housing.
5. (Original) The machine of claim 1, further comprising a vacuum pump operably coupled to the cleaning device to draw the contaminants from the workpiece support.

6. (Original) The machine of claim 1, further comprising a cleaning fluid supply; wherein the cleaning device comprises a first passageway in fluid communication with the cleaning fluid supply to provide a cleaning fluid to the workpiece support and a second passageway to exhaust the cleaning fluid from the workpiece support.
7. (Original) The machine of claim 1 wherein:
the workpiece support comprises a recess to receive a microfeature workpiece; and
the cleaning device comprises a distal portion positionable at least partially in the recess to remove contaminants from the recess.
8. (Original) The machine of claim 1, further comprising a controller operably coupled to the stage and having a computer-readable medium containing instructions to perform a method comprising positioning the workpiece support under the cleaning device.
9. (Original) The machine of claim 1, further comprising a controller operably coupled to the cleaning device and having a computer-readable medium containing instructions to perform a method comprising moving the cleaning device relative to the housing.
10. (Original) The machine of claim 1, further comprising a controller operably coupled to the stage and the cleaning device, the controller having a computer-readable medium containing instructions to perform a method comprising moving the cleaning device and the stage to position the cleaning device at least proximate to the workpiece support.
11. (Original) A stepper or scanner machine for processing microfeature workpieces, the machine comprising:
a photolithographic exposure system;
a workpiece support having a recess to receive a microfeature workpiece, the workpiece support being positionable at least proximate to the photolithographic exposure system;
an internal cleaning device having a distal portion with a passageway for removing contaminants from the recess of the workpiece support; and

a stage carrying the workpiece support, at least one of the stage and the cleaning device being movable relative to the other to position the distal portion of the cleaning device at least proximate to the recess of the workpiece support.

12. (Original) The machine of claim 11, further comprising a housing enclosing the internal cleaning device, the workpiece support, and the stage.

13. (Original) The machine of claim 11 wherein the distal portion of the cleaning device comprises an end effector configured to engage the workpiece support.

14. (Original) The machine of claim 11, further comprising:
a housing enclosing the workpiece support, the stage, and the internal cleaning device;
and
a positioning device coupled to the cleaning device to move the cleaning device relative to the housing.

15. (Original) The machine of claim 11, further comprising a housing enclosing the workpiece support, the stage, and the internal cleaning device, wherein the cleaning device is fixed relative to the housing.

16. (Original) The machine of claim 11, further comprising a vacuum pump operably coupled to the passageway of the cleaning device to draw contaminants from the recess of the workpiece support.

17. (Original) The machine of claim 11, further comprising a cleaning fluid supply; wherein the passageway comprises a first passageway in fluid communication with the cleaning fluid supply to provide a cleaning fluid to the recess of the workpiece support; and wherein the cleaning device further comprises a second passageway to exhaust the cleaning fluid from the recess of the workpiece support.

18. (Original) A stepper or scanner machine for processing microfeature workpieces, the machine comprising:

a housing;

a photolithographic system disposed within the housing for patterning a layer of resist on a microfeature workpiece;

a workpiece support within the housing, the workpiece support having a recess to receive the microfeature workpiece;

a means for removing contaminants from the recess of the microfeature workpiece, the means for removing contaminants being disposed within the housing; and

a stage carrying the workpiece support, the stage being movable relative to the means for removing contaminants to selectively position the workpiece support at least proximate to the means for removing contaminants.

19. (Original) The machine of claim 18 wherein the means for removing contaminants comprises an end effector configured to engage the workpiece support to remove contaminants.

20. (Original) The machine of claim 18 wherein:

the means for removing contaminants comprises a distal portion with a passageway; and the machine further comprises a vacuum pump operably coupled to the passageway to draw contaminants from the workpiece support.

21. (Original) The machine of claim 18, further comprising a cleaning fluid supply; wherein the means for removing contaminants comprises a first passageway in fluid communication with the cleaning fluid supply to provide a cleaning fluid to the workpiece support and a second passageway to exhaust the cleaning fluid from the workpiece support.

22-55. (Cancelled)